



STANTON

NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
1200 Missouri Avenue
Bismarck, North Dakota 58505

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1977

1. Name of Firm or Organization: United Power Association
2. Plant Location: Stanton, North Dakota
3. Permit to Operate Number: ~~730003~~ F 76007
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>737,106 tons</u> (Specify Units) Delivered Cost of fuel <u>\$5.61/ton</u> (\$/Unit Quantity)	Type _____ Quantity per year _____ (Specify Units) Delivered Cost of fuel _____ (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. 11.08 Min. 7.95 Avg. 8.86		
PERCENT SULFUR Max. .86 Min. .48 Avg. .64		
BTU PER UNIT Max. 7,160/lb. Min. 6,600/lb. Avg. 6,814/lb.		

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type _____		Type <u>Lignite</u>	Type _____
	Units <u>Tons</u>	Units _____		Units <u>Tons</u>	Units _____
Jan.	73,445		July	83,845	
Feb.	59,582		Aug.	78,524	
March	62,220		Sept.	75,999	
April	3,238		Oct.	74,806	
May	34,489		Nov.	67,115	
June	46,653		Dec.	77,149	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type _____ Units _____
Maximum	130	
Average	99.0	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 46

Days Per Week 7 Peak Season August and December
(Specify Months of Year)

Total Hours Per Year 7,700

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	193	634
Sulfur Dioxide	2,534	9,435
Nitrogen Oxides	1,410	5,250
Other (Specify)		

Basis For Quantities Listed Above:

Particulate = 737,106 Tons/yr x 67% fly ash x 8.86% ash x 1.45% emission = 634 Tons/yr

SO₂ = 737,106 Tons/yr x 0.64% sulfur x 2 $\frac{\text{SO}_2}{\text{S}}$ = 9,435 Tons/yr

NO_x = SO₂ x $\frac{335 \text{ ppm}}{602 \text{ ppm}}$ = 5,250

10. Name of Person Submitting Report (Print or Type) Dan McConnon

Title Manager, Environmental Protection and Right-of-Way Div. Phone (612) 441-3121

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Dan McConnon Date 2/13/78